

# HAZARDOUS MATERIAL MANAGEMENT DDG51 CLASS SHIPS



LINDA K.  
STILES

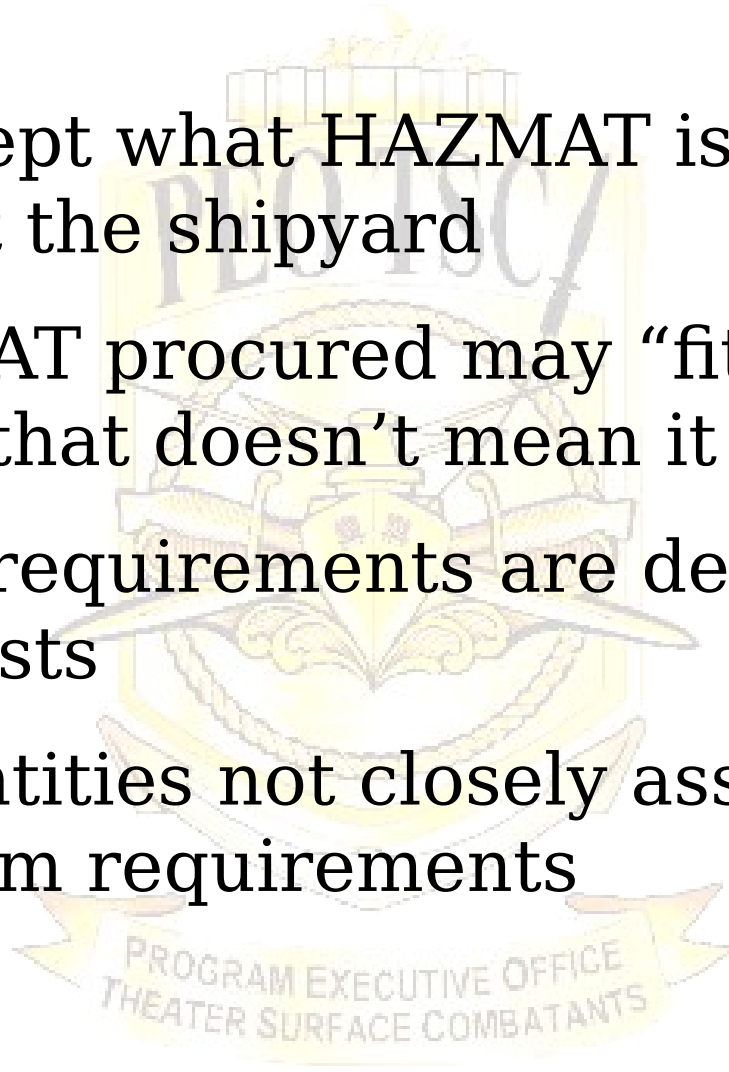
PEO TSC ES

# DDG-51 Class HAZMAT Outfitting Procedure

- Developed DDG-51 Class LOADOUT AEL
  - Advantages:
    - Facilitates centralized management
    - Consolidated Hazmat Requirements listing
      - Built in “Gatekeeper” function
    - On board quantities reduction
      - possible cost avoidance
    - Workload reduction
    - Will link Hazmat to source documentation
  - Disadvantages:
    - Infrastructure Management requirements
      - “Trusted Agent”

# Current Loadout Issues

- Ships accept what HAZMAT is provided to them at the shipyard
- All HAZMAT procured may “fit on the ship” but that doesn’t mean it is required
- HAZMAT requirements are derived from multiple lists
- Load quantities not closely associated with system requirements

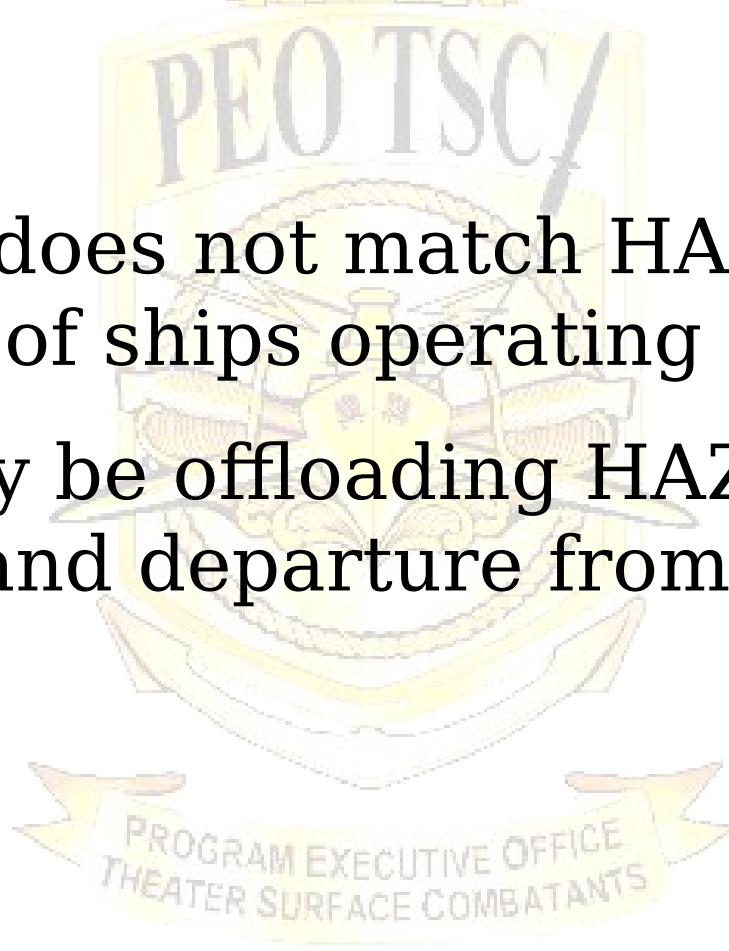


# Current Loadout Issues (cont.)

- Current methods used to calculate allowance quantities are inaccurate
- Same material may be listed, and therefore purchased more than once
- Equipment HAZMAT requirements are difficult for a non-subject matter expert to determine, and therefore determine an adequate quantity for use

# Current Loadout Issues (cont.)

- Load list does not match HAZMAT database of ships operating in the fleet
- Ships may be offloading HAZMAT after load out and departure from shipyard



# AEL Management Process (Outfitting)

- Trusted Agent only authorized party to make changes (adds/deletes) to Hazmat AEL
- Single document for initial Loadout procurement
- Requirement validation prior to adds/deletes
  - ISEA, TDA, OEM etc.
  - Comparison requirement with existing onboard HAZMAT quantities

# AEL Management Process (Lifecycle)

- Trusted Agent only authorize party to make changes, adds/deletes to Hazmat AEL
- Single document for Lifecycle management
- Requirement validation prior to adds/deletes
  - ISEA, TDA, OEM etc.
  - Comparison requirement with existing onboard assets
- Demand based Hazmat allowance computation



# Summary

- We have developed a workable process to consolidate and manage HAZMAT throughout the life of Naval ships
- Recommend as standard Hazmat outfitting policy
- Explore possible fleet wide application